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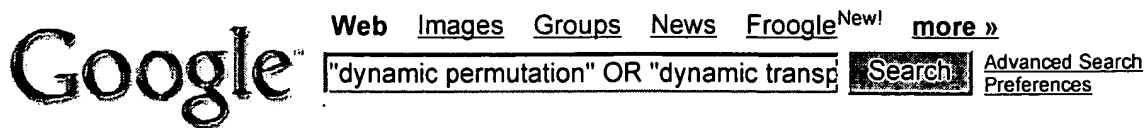
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1 Performance study of access control in wireless LANs—IEEE 802.11 DFWMAC and ETSI RES 10 Hiperlan

Jost Weinmiller, Morten Schläger, Andreas Festag, Adam Wolisz

June 1997 **Mobile Networks and Applications**, Volume 2 Issue 1

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Currently two projects are on their way to standardize physical layer and medium access control for wireless LANs—IEEE 802.11 and ETSI RES 10 Hiperlan. This paper presents an introduction to both projects focussing on the applied access schemes. Further we will present our simulation results, analyzing the performance of both access protocols depending on the number of stations and on the packet size, evaluating them regarding their capability to support QoS parameters, regarding the ...

2 Issues in satellite personal communication systems

Erich Lutz

February 1998 **Wireless Networks**, Volume 4 Issue 2

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In the paper various issues in personal satellite communications are addressed. Basic geostationary and non-geostationary satellite constellations are considered. The narrowband and wideband characterization of the mobile satellite channel and related system implications are discussed. Satellite diversity is presented as a measure to overcome signal shadowing. The capacity of TDMA and CDMA multiple access is estimated, taking into account co-channel interference. Various network issues, such as ...

3 Analysis of protocol sequences for slow frequency hopping

László Györfi, István Vajda

August 1998 **Wireless Networks**, Volume 4 Issue 5

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An error probability bound for protocol sequences is derived for frame asynchronous access on a slow frequency hopping channel. This bound depends on the maximum and average cyclic Hamming correlation properties of the protocol sequences used. Constructions of protocol sequences with good cyclic correlation properties are given.

4 Random access with large propagation delay

Ramaswamy Murali, Brian L. Hughes

December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6

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Keywords: forward-error-correction, large propagation delay, packet broadcast channel, random access, slotted ALOHA

5 A new approach to the design and analysis of peer-to-peer mobile networks

Imrich Chlamtac, András Faragó

May 1999 **Wireless Networks**, Volume 5 Issue 3

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This paper introduces a new model and methodological approach for dealing with the probabilistic nature of mobile networks based on the theory of random graphs. Probabilistic dependence between the random links prevents the direct application of the theory of random graphs to communication networks. The new model, termed Random Network Model, generalizes conventional random graph models to allow for the inclusion of link dependencies in a mobile network. The new Random Network Model is obta ...

6 Cryptographic security Techniques for wireless networks

Danai Patiyoot, S. J. Shepherd

April 1999 **ACM SIGOPS Operating Systems Review**, Volume 33 Issue 2

Full text available:  [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper deals with security techniques for wireless Networks. The work presented is based on a review of literature regarding current and future wireless security networks systems. The aspects discussed in this paper included the choices of cryptographic algorithms such as protocols for key management and authentication. Various conclusions are drawn from existing security networks and proposed in new wireless ATM network security. Also a proposal for future research into security techniques ...

Keywords: cryptographic, security, wireless

7 Performance analysis of centralized FH-CDMA wireless networks

Khairi Ashour Mohamed, László Pap

May 1999 **Wireless Networks**, Volume 5 Issue 3

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Centralized CDMA networks with unslotted Aloha random-access mode are considered. Users communicate with a central node by sharing a finite number of signature sequences assigned to the receivers at the central node. Two methods for sharing preamble codes are considered. In one method a common preamble code is used by all receivers, and in the other method a distinct code is assigned for each receiver. A unified analysis framework for evaluating the performance of centralized FH-CDMA network ...

8 Enhanced reserved polling multiaccess technique for multimedia personal communication systems

Benny Bing, Regu Subramanian

May 1999 **Wireless Networks**, Volume 5 Issue 3

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This article describes a multiaccess technique which allows the transport of multimedia information across global personal communication systems (PCS). Impressive growth in the application of wireless technologies to telecommunications has sparked active research on a new generation of mobile radio networks projected to handle heterogeneous traffic types. One of the key requirements of these advanced systems is the multiaccess protocol which must guarantee quality of service and provide eff ...

9 The effects of asymmetry on TCP performance

Hari Balakrishnan, Randy H. Katz, Venkata N. Padmanbhan
October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3

Full text available:  [pdf\(382.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we study the effects of network asymmetry on end-to-end TCP performance and suggest techniques to improve it. The networks investigated in this study include a wireless cable modem network and a packet radio network, both of which can form an important part of a mobile ad hoc network. In recent literature (e.g., [18]), asymmetry has been considered in terms of a mismatch in bandwidths in the two directions of a data transfer. We generalize this notion of bandwidth asymmetry t ...

10 Power minimization in IC design: principles and applications

Massoud Pedram
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Low power has emerged as a principal theme in today's electronics industry. The need for low power has caused a major paradigm shift in which power dissipation is as important as performance and area. This article presents an in-depth survey of CAD methodologies and techniques for designing low power digital CMOS circuits and systems and describes the many issues facing designers at architectural, logical, and physical levels of design abstraction. It reviews some of the techniques and tool ...

Keywords: CMOS circuits, adiabatic circuits, computer-aided design of VLSI, dynamic power dissipation, energy-delay product, gated clocks, layout, low power layout, low power synthesis, lower-power design, power analysis and estimation, power management, power minimization and management, probabilistic analysis, silicon-on-insulator technology, statistical sampling, switched capacitance, switching activity, symbolic simulation, synthesis, system design

11 Potential of the GSM air interface to support CDMA operation

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January 2000 **Wireless Networks**, Volume 6 Issue 1

Full text available:  [pdf\(135.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ongoing development of third generation systems sets the path for evolution of the existing second generation systems. Important issues are the need for compatibility and the establishment of a path of migration from the current operative mobile systems. This paper considers the feasibility of supporting CDMA capabilities within the GSM air interface in order to provide UMTS services. It produces performance estimates for two specific examples; Joint Detection CDMA channels, and M ...

12 Scheduling algorithms for multi-hop radio networks

S. Ramanathan, Errol L. Lloyd

October 1992 **ACM SIGCOMM Computer Communication Review , Conference**

proceedings on Communications architectures & protocols, Volume 22 Issue 4

Full text available:  [pdf\(1.22 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

New algorithms for transmission scheduling in multihop broadcast radio networks are presented. Both link scheduling and broadcast scheduling are considered. In each instance scheduling algorithms are given that improve upon existing algorithms both theoretically and experimentally. Theoretically, it is shown that tree networks can be scheduled optimally, and that arbitrary networks can be scheduled so that the schedule is bounded by a length that is proport ...

13 Scheduling algorithms for multihop radio networks

Subramanian Ramanathan, Errol L. Lloyd

April 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 2

Full text available:  [pdf\(1.31 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

14 Toward a framework for power control in cellular systems

Zvi Rosberg, Jens Zander

March 1998 **Wireless Networks**, Volume 4 Issue 3

Full text available:  [pdf\(261.10 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Efficiently sharing the spectrum resource is of paramount importance in wireless communication systems, in particular in Personal Communications where large numbers of wireless subscribers are to be served. Spectrum resource sharing involves protecting other users from excessive interference as well as making receivers more tolerant to this interference. Transmitter power control techniques fall into the first category. In this paper we describe the power control problem, discuss its major ...

15 Using channel state dependent packet scheduling to improve TCP throughput over wireless LANs

Pravin Bhagwat, Partha Bhattacharya, Arvind Krishma, Satish K. Tripathi

March 1997 **Wireless Networks**, Volume 3 Issue 1

Full text available:  [pdf\(541.97 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In recent years, a variety of mobile computers equipped with wireless communication devices have become popular. These computers use applications and protocols, originally developed for wired desktop hosts, to communicate over wireless channels. Unlike wired networks, packets transmitted on wireless channels are often subject to burst errors which cause back to back packet losses. In this paper we study the effect of burst packet errors and error recovery mechanisms employed in wireless MAC ...

16 Performance modeling of asynchronous data transfer methods of IEEE 802.11 MAC protocol

Harshal S. Chhaya, Sanjay Gupta

August 1997 **Wireless Networks**, Volume 3 Issue 3

Full text available:  [pdf\(696.55 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To satisfy the needs of wireless data networking, study group 802.11 was formed under IEEE project 802 to recommend an international standard for Wireless Local Area Networks

(WLANs). A key part of standard are the Medium Access Control (MAC) protocol needed to support asynchronous and time bounded delivery of data frames. It has been proposed that unslotted Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA) be the basis for the IEEE 802.11 WLAN MAC protocols. We conduct perfo ...

17 On the performance of packet-switched cellular networks for wireless data communications



Jean-Paul M. G. Linnartz

February 1995 **Wireless Networks**, Volume 1 Issue 2

Full text available:  pdf(1.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


Cellular frequency reuse is known to be an efficient method to allow many wireless telephone subscribers to share the same frequency band. However, for wireless data and multi-media communications optimum cell layouts differ essentially from typical solutions for telephone systems. We argue that wireless radio systems for bursty message traffic preferably use the entire bandwidth in each cell. Packet queuing delays are derived for a network with multipath fading channels, shadowing, path lo ...

18 Implementing a RAKE receiver for wireless communications on an FPGA-based computer system



Ali M. Shankiti, Miriam Leeser

February 2000 **Proceedings of the 2000 ACM/SIGDA eighth international symposium on Field programmable gate arrays**

Full text available:  pdf(786.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

RAKE receivers are widely used in the wireless communications industry. Currently, custom VLSI is the most popular implementation. Programmable and reconfigurable logic implementations are becoming more attractive because of their flexibility and due to technology advancements. We have implemented a RAKE receiver on an Annapolis Wildforce board with four Xilinx 4000 family chips for a total of 100,000 gate equivalents. Our system is able to implement a RAKE receiver for underwater data comm ...


Keywords: FPGA, RAKE receiver, wireless communications

19 The effects of asymmetry on TCP performance



Hari Balakrishnan, Venkata N. Padmanabhan, Randy H. Katz

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  pdf(2.02 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

20 A unified framework and algorithm for channel assignment in wireless networks



S. Ramanathan

March 1999 **Wireless Networks**, Volume 5 Issue 2

Full text available:  pdf(260.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Channel assignment problems in the time, frequency and code domains have thus far been studied separately. Exploiting the similarity of constraints that characterize assignments within and across these domains, we introduce the first unified framework for the study of assignment problems. Our framework identifies eleven atomic constraints underlying most current and potential assignment problems, and characterizes a problem as a combination of these constraints. Based on this framework, we ...

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